UTILITY NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT "CALL-BEFORE-YOU-DIG" @ 1-800-922-4455 FOR THE LOCATION AND MARKING OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, AND INVERTS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN BY THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MEP PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE, AND ALL OTHER UTILITIES. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION OF AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES 72 HOURS PRIOR TO BEGINNING OF EXCAVATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PAVEMENT REPAIRS REQUIRED AS A RESULT OF ANY UTILITY WORK.
6. LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY GENERAL CONTRACTOR THE PROPER UTILITY COMPANY PROVIDING SERVICE.
7. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE-IN FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
8. DIMENSIONS SHOWN ARE TO THE CENTERLINE OF PIPE OR FITTING.
9. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
10. GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THE SYSTEM PRIOR TO INSTALLATION.

ELECTRIC, TELEPHONE, & GAS:

11. CONTRACTOR TO COORDINATE GAS MAIN, ELECTRIC, AND TELEPHONE INSTALLATION WITH THE APPROPRIATE UTILITY COMPANIES.
12. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 30 INCHES OF COVER FOR ALL UNDERGROUND ELECTRIC, TELEPHONE AND GAS UTILITIES.

WATER & SANITARY:

13. ALL SANITARY SEWER PIPE TO BE PUSH-JOINT POLYVINYL CHLORIDE (PVC) PIPE SDR-35. ALL JOINTS BETWEEN PVC PIPE SECTIONS AND BETWEEN PIPE AND PRECAST MANHOLES SHALL HAVE WATER-TIGHT RUBBER GASKET CONNECTIONS. ALL PVC PIPES AND FITTINGS SHALL COMPLY WITH ASTM D3034-93. ALL MAINS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE LOW PRESSURE AIR TEST METHOD.
14. WHERE THE SANITARY SEWER LINE PASSES LESS THAN 18" BELOW THE WATER LINE, PROVIDE CONCRETE ENCASEMENT. THE LENGTH OF THE ENCASEMENT TO BE INCREASED TO THE NEAREST JOINT.
15. WHERE THE SANITARY SEWER LINE PASSES ABOVE THE WATER LINES, ENCASE SEWER IN 6" THICK CONCRETE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, OR SUBSTITUTE RUBBER GASKETED PRESSURE PIPE FOR THE PIPE BEING USED FOR THE SAME DISTANCE.
16. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4.5 FEET OF COVER FOR ALL WATER DISTRIBUTION PIPING.
17. ALL NEW WATER LINES SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600.
18. ALL NEW WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.
19. GRAVITY PIPING SHALL BE INSTALLED FROM DOWNSTREAM TO UPSTREAM, "IN THE DRY". THE CONTRACTOR IS ENCOURAGED TO BEGIN WORK AT THE MOST DOWNSTREAM POINT IN THE SYSTEM, ESPECIALLY WHEN THE NEW WORK WILL CONNECT TO AN EXISTING UTILITY DOWNSTREAM. IF THE CONTRACTOR CHOOSES NOT TO START AT THE FURTHEST DOWNSTREAM LOCATION, THEN HE IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, ELEVATION, AND INVERT OF THE EXISTING UTILITY PRIOR TO STARTING ANY WORK AND VERIFYING THAT THE EXISTING LOCATION AND INVERT ALLOWS FOR THE CONSTRUCTION OF THE PROPOSED SYSTEM AS DESIGNED.

CONTRACTOR NOTES

1. THE WORK TO BE PERFORMED IS AS SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS MAY NOT COMPLETELY REPRESENT ALL SPECIFIC DETAILS OF INSTALLATION REQUIRED FOR CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL IMPROVEMENTS REQUIRED TO ACHIEVE CONSTRUCTION DEPICTED ON THESE PLANS.
2. THE CONTRACTOR SHALL PROVIDE WRITTEN REQUESTS FOR INFORMATION TO THE OWNER AND OWNER'S ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITEWORK ITEM IF ANY SITEWORK ITEM DEPICTED ON THE PLANS WARRANTS ADDITIONAL ENGINEERING INFORMATION REQUIRED FOR CONSTRUCTION AND IS NOT RELATED TO MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITEWORK ITEMS INSTALLED DIFFERENTLY THAN INTENDED AS DEPICTED ON THE PLANS IN THE ABSENCE OF SUBMITTING AND RECEIVING REVIEWS AND/OR DIRECTION ON WRITTEN REQUESTS FOR INFORMATION.
3. THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL MAKE AND SHALL BE DEEMED TO HAVE MADE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS, CORRELATE CONDITIONS WITH THE DRAWINGS AND RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND OWNER'S ENGINEER PRIOR TO COMMENCEMENT OF WORK. THIS INCLUDES A TOPOGRAPHIC SURVEY OF ANY AREAS THE CONTRACTOR REQUIRES ADDITIONAL TOPOGRAPHIC INFORMATION. ANY CONDITIONS THAT DIFFER FROM THE EXISTING CONDITIONS SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND OWNER'S ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDS FOR A CHANGE ORDER.
4. IT IS SPECIFICALLY NOTED THAT INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION ON THE DRAWINGS. CONTRACTOR SHALL REVIEW ALL PLANS, PROFILES AND ANY INFORMATION/DATA TABLES FOR CONSISTENCY PRIOR TO CONSTRUCTION. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S ENGINEER IN WRITING REQUESTING CLARIFICATION PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL NOTE THAT THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED ON SHEETS THROUGHOUT THE PLAN SET AND AVAILABLE REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL APPLICABLE REQUIREMENTS.
6. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT "CALL BEFORE YOU DIG" @ 1-800-922-4455 FOR THE LOCATION AND MARKING OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, AND INVERTS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN BY THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. CONTRACTOR SHALL REFER TO MEP AND ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, GAS, FIBER OPTIC, AND TELEPHONE SERVICE, ROOF DRAINS, AND ALL OTHER UTILITIES. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION OF AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, AND DETAILS OF ALL DOORS, STAIRS, RAMPS, SIDEWALKS, CONCRETE PADS, WALLS, CANOPIES, EXTERIOR COLUMNS AND BOLLARDS ASSOCIATED WITH THE BUILDING.
10. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE THE PROPOSED SANITARY AND STORM PIPING WILL CROSS EXISTING UTILITIES AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS SO THAT AN APPROPRIATE MODIFICATION CAN BE MADE.
11. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE TOWN OF WEST HARTFORD TO SECURE CONSTRUCTION PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
12. THESE PLANS DETAIL SITE INSTALLED PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO ARCHITECTURAL, STRUCTURAL AND MEP DRAWINGS FOR BUILDING CONNECTIONS. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT.
13. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
14. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER, TOWN OF WEST HARTFORD AND STATE OF CONNECTICUT.

GENERAL NOTES

1. ALL TOPOGRAPHIC, PROPERTY LINE, AND UTILITY INFORMATION TAKEN FROM PLAN ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY", PREPARED BY LANGAN ENGINEERING, DATED 10/26/18.
2. LIMIT OF WETLANDS ARE BASED ON INLAND WETLANDS DELINEATION REPORT PREPARED BY HIGHLAND SOILS, LLC DATED OCTOBER 7, 2015.
3. PROPOSED SITE PLAN WAS OBTAINED ON 10/24/2018 FROM CR3, LLP ON A PLAN TITLED "OVERALL SITE PLAN"
4. PORTIONS OF THE THE SITE ARE LOCATED WITHIN ZONE A, AN AREA WITHIN THE 100-YEAR FLOODPLAIN AND WHERE FLOOD WATER ELEVATIONS HAVE NOT BEEN ESTABLISHED PER FIRM MAP 09003C0364F, EFFECTIVE SEPTEMBER 26,2008.
5. ALL MODIFICATIONS AND SUBSTITUTIONS TO PLAN ARE SUBJECT TO REVIEW AND APPROVAL BY THE PLANNING AND ZONING COMMISSION OR DESIGNATED STAFF.
6. PROPOSED SITE WORK IMPROVEMENTS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE TOWN OF WEST HARTFORD. IN THE ABSENCE OF LOCAL STANDARDS, SITE WORK SHALL CONFORM TO THE REQUIREMENTS OF CONNECTICUT DOT STANDARD DETAILS.
7. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING CALL BEFORE YOU DIG (800-922-4455, WWW.CBYD.COM), EXCAVATION TEST HOLES, PERFORMING TEST BORINGS, AND PERFORMING WHATEVER ADDITIONAL INVESTIGATION NECESSARY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES TO REMAIN THROUGHOUT THE CONSTRUCTION PERIOD. ANY CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE PROJECT ENGINEER.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS AND DETAILS OF ALL DOORS, RAMPS, SIDEWALKS AND WALLS ASSOCIATED WITH THE BUILDING.
9. ALL IMPROVEMENTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO TOWN OF WEST HARTFORD STANDARD DETAILS. IN THE ABSENCE OF LOCAL DETAILS & REQUIREMENTS WORK SHALL COMPLY WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 817 WITH LATEST SPECIAL PROVISIONS AND TYPICAL STATE STANDARD DETAILS.
10. FOR AREAS OUTSIDE THE PROPERTY LINES, REPAIR AND/OR REPLACE ALL DAMAGE DONE TO EXISTING ELEMENTS (SIDEWALKS, PAVING, LANDSCAPING, ETC) AS REQUIRED BY OWNER AND/OR GOVERNING AUTHORITY.
11. CONTRACTOR SHALL PREVENT DUST, SEDIMENT AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. ADJOINING STREETS AND PROPERTIES TO BE KEPT FREE OF DEBRIS RESULTING FROM DEMOLITION AND SHALL BE CLEANED ON A DAILY BASIS OR AS NEEDED.
12. DUST CONTROL TREATMENTS SHALL BE APPLIED AS NECESSARY TO CONTROL AND REDUCE THE AMOUNT OF DUST WHICH MAY CAUSE OFF-SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE AND PLANT LIFE, OR POSE A HAZARD TO TRAFFIC SAFETY.
13. ABBREVIATIONS:
    GR = GRATE
    INV = INVERT
    PVC = POLYVINYL CHLORIDE PIPE (SDR-35)
    HDPE = HIGH DENSITY POLYETHYLENE PIPE
    DIP = DUCTILE IRON
    MH = MANHOLE
    GR = GRADE
    CCB = CURB CATCHBASIN
    MH = MANHOLE
    LF = LINEAR FEET
    TW = TOP OF WALL
    BW = BOTTOM OF WALL
    PR. = PROPOSED
    EX = EXISTING
    TYP. = TYPICAL
    OCS = OUTLET CONTROL STRUCTURE
    TF = TOP OF FRAME
    N.T.S. = NOT TO SCALE
14. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON IS TAKEN FROM DESIGN PLANS, AS-BUILT SKETCHES, EXISTING UTILITY COMPANY RECORDS, AND OTHER SOURCES OF INFORMATION AND IS NOT TO BE CONSTRUED AS AN ACCURATE "AS-BUILT" SURVEY AND IS SUBJECT TO SUCH CORRECTIONS THAT A MORE ACCURATE SURVEY MAY DISCLOSE.
15. THE EXISTING UTILITIES INDICATED HEREON MAY NOT BE LOCATED AS SHOWN. IN ADDITION, OTHER UTILITIES NOT SHOWN HEREON MAY BE PRESENT. ANY DISCREPANCIES DISCOVERED DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE PROJECT ENGINEER.
16. ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS/DETAILS OF THE UTILITY COMPANY HAVING AUTHORITY OVER THE PROPOSED WORK. ALL PROPOSED UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ORDINANCES/REQUIREMENTS GOVERNING THE PROPOSED WORK.
17. ANY UTILITY EASEMENTS REQUIRED BY ANY OF THE VARIOUS UTILITY COMPANIES SHALL BE OBTAINED, EXECUTED, AND RECORDED PRIOR TO ANY OF THE AFFECTED UTILITY WORK BEING PERFORMED.
18. ALL PROPOSED UTILITIES WILL BE LOCATED UNDERGROUND.
19. RESET ALL EXISTING SANITARY AND DRAINAGE STRUCTURES TO CONNECTICUT STATE STANDARDS AND AS REQUIRED BY REPAIRING, MILLING OR OVERLAYING.
20. CONTRACTOR TO COORDINATE GAS MAIN, ELECTRIC, AND TELEPHONE INSTALLATION WITH APPROPRIATE UTILITY COMPANIES.
21. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2 FEET OF COVER FOR ALL UNDERGROUND ELECTRIC, TELEPHONE AND GAS UTILITIES.
22. THE CONTRACTOR MUST VERIFY THE LOCATION, SIZE, AND SERVICEABILITY OF THE EXISTING WATER MAINS PRIOR TO BEGINNING ANY SITE OR BUILDING CONSTRUCTION.
23. WHERE THE SANITARY SEWER LINE PASSES ABOVE THE WATER LINES, ENCASE SEWER IN 6" THICK CONCRETE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, OR SUBSTITUTE RUBBER GASKETED PRESSURE PIPE FOR THE PIPE BEING USED FOR THE SAME DISTANCE.
24. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4.5 FEET OF COVER FOR ALL WATER DISTRIBUTION PIPING OR DEEPER IF REQUIRED BY THE WATER COMPANY.
25. ALL NEW WATER LINES SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600.
26. ALL NEW WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.
27. ALL RIMS AND STRUCTURES SHALL ACCOMODATE H20 LOADING.
28. CONTRACTOR TO PROVIDE ALL NECESSARY WATER MAIN BENDS AND FITTINGS AS REQUIRED TO AVOID EXISTING AND PROPOSED UTILITIES.
29. COORDINATE ALL SERVICE LATERAL LOCATIONS AND ELEVATIONS WITH MEP/ARCHITECTURAL DRAWINGS.
30. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY DISCREPANCIES DISCOVERED DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE PROJECT ENGINEER.
31. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE UTILITY COMPANIES AS TO LOCATION OF AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
32. ALL PROPOSED STORM DRAINAGE PIPING TO UTILIZE WATER-TIGHT JOINTS.
33. LOCATIONS AND ELEVATIONS OF ROOF LEADERS SHOULD BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
34. CLEANOUTS SHALL BE PROVIDED FLUSH TO GRADE AT ALL LOCATIONS OF ROOF DRAIN INTERSECTIONS, BENDS AND UPSTREAM ENDS.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SIZING ALL DRAINAGE STRUCTURES AND SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW.
36. ALL SIDEWALKS SHALL SLOPE 2.0% (MIN.) AWAY FROM BUILDING.
37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PAVEMENT REPAIRS REQUIRED AS A RESULT OF ANY UTILITY WORK.

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
ZONE LINE		
BUILDING LINE		
DOOR LOCATION		
GARAGE DOOR		
CURB LINE		
RETAINING WALL		
TRANSFORMER		T
SANITARY SEWER LINE		
DOMESTIC WATER LINE	W W W	UW UW
GAS LINE	G G G	G
GAS METER		
UTILITY POLE		
UNDERGROUND ELECTRIC	E E E	UT . UE
STORM PIPE		
SANITARY/STORM MANHOLE	S	
CONTOUR	137	139
SPOT ELEVATION	X 139.67	X 138.79
CATCH BASIN		
STORM MANHOLE	D	
YARD DRAIN		
TRENCH DRAIN		
LIMIT OF DISTURBANCE		
SILT FENCE		
STAKED HAILBALES		
PROPOSED INLET PROTECTION		
EXISTING INLET PROTECTION		
SOIL BOUNDARY		
CONSTRUCTION ENTRANCE		
TEMPORARY SEDIMENT TRAP WITH DIVERSION BERM/DITCHES		

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ONE PARK ROAD

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PROJECT DATA

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CHECKED	NLK
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HISTORY OF SUBMISSIONS

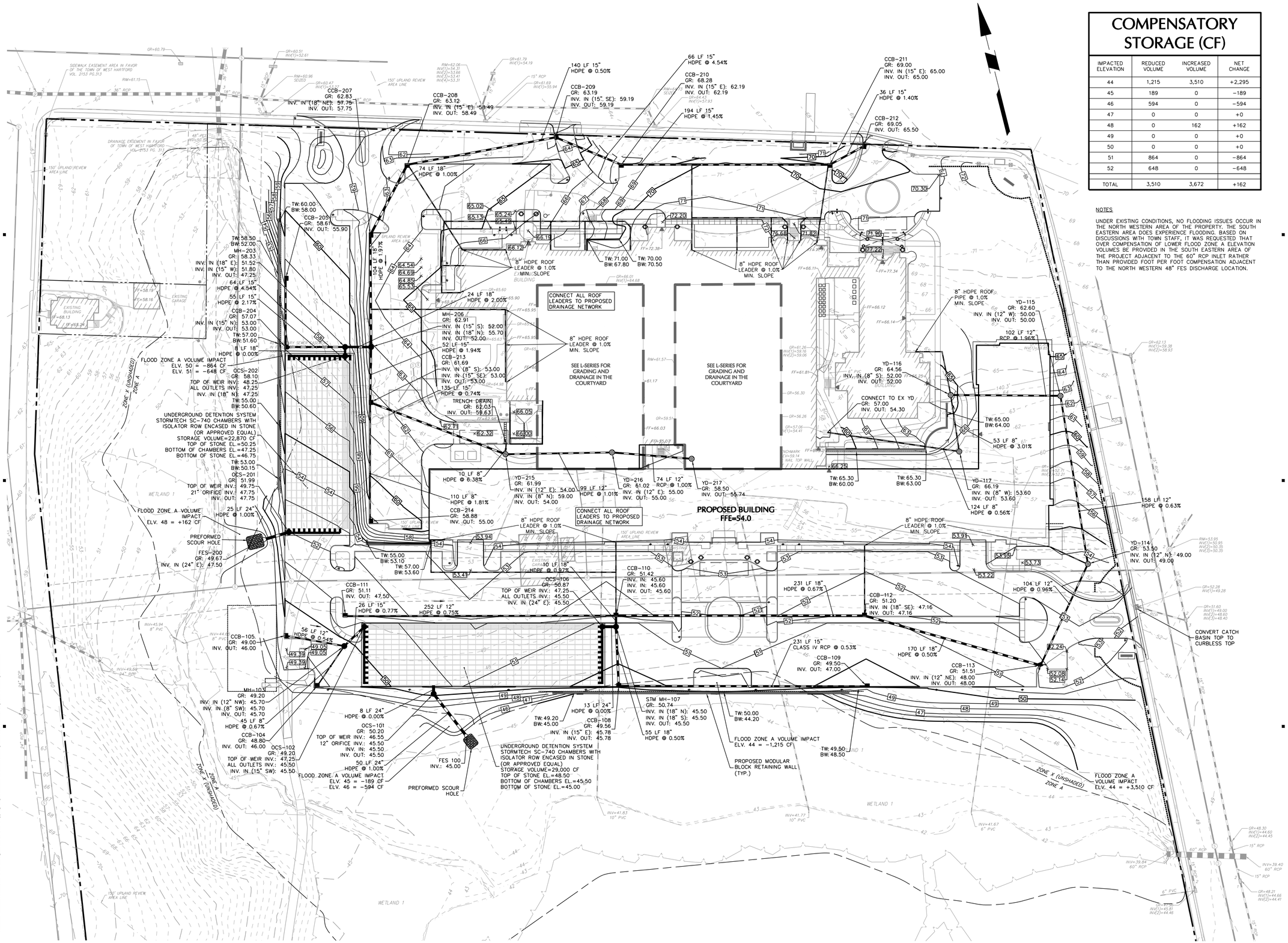
No.	Date	Description
1	10/26/2018	Wetlands Application Submission
2	11/02/2018	Wetlands & SDD Application Submission
3	12/07/2018	Response to Engineering and Staff Comments
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

C-SERIES LEGEND AND GENERAL NOTES

CS002



COMPENSATORY STORAGE (CF)

IMPACTED ELEVATION	REDUCED VOLUME	INCREASED VOLUME	NET CHANGE
44	1,215	3,510	+2,295
45	189	0	-189
46	594	0	-594
47	0	0	+0
48	0	162	+162
49	0	0	+0
50	0	0	+0
51	864	0	-864
52	648	0	-648
TOTAL	3,510	3,672	+162

NOTES

UNDER EXISTING CONDITIONS, NO FLOODING ISSUES OCCUR IN THE NORTH WESTERN AREA OF THE PROPERTY. THE SOUTH EASTERN AREA DOES EXPERIENCE FLOODING. BASED ON DISCUSSIONS WITH TOWN STAFF, IT WAS REQUESTED THAT OVER COMPENSATION OF LOWER FLOOD ZONE A ELEVATION VOLUMES BE PROVIDED IN THE SOUTH EASTERN AREA OF THE PROJECT ADJACENT TO THE 60" RCP INLET RATHER THAN PROVIDED FOOT PER FOOT COMPENSATION ADJACENT TO THE NORTH WESTERN 48" FES DISCHARGE LOCATION.

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HISTORY OF SUBMISSIONS

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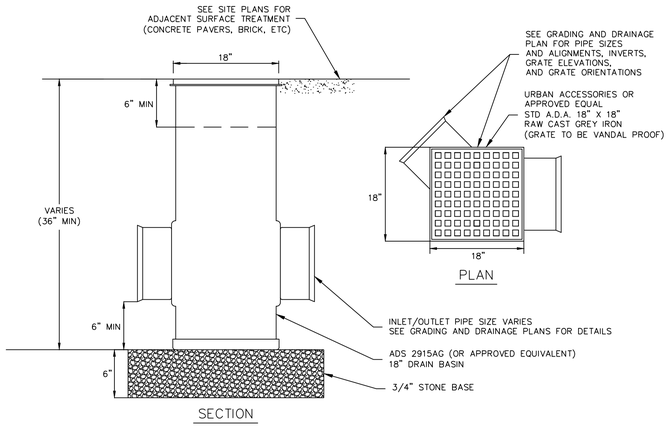
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

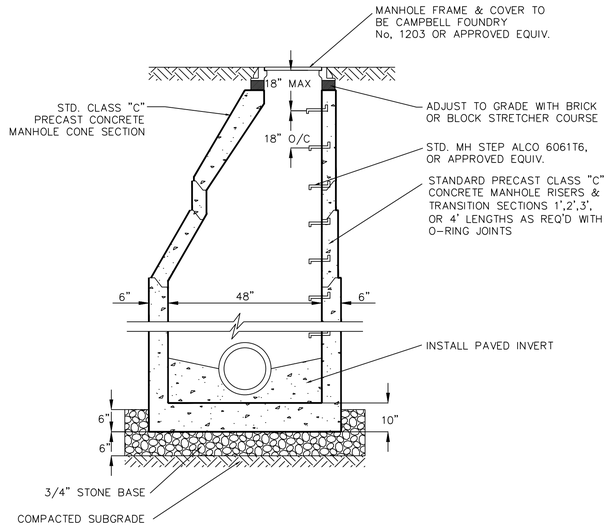
GRADING AND DRAINAGE PLAN

CG101



YARD DRAIN

N.T.S.

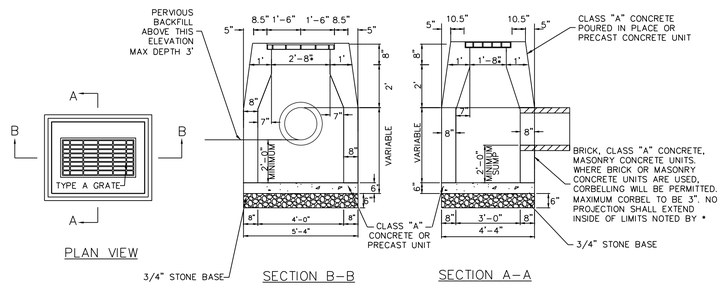


NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROPERLY SIZING MANHOLES. OVER SIZE MANHOLES SHALL BE PROVIDED IF MINIMUM 6" WALL DIMENSION BETWEEN PIPES IS NOT PROVIDED.
2. MANHOLES SHALL BE STANDARD PRECAST CONCRETE UNITS AND SHALL BE DESIGNED AND CONSTRUCTED BY THE MANUFACTURER TO SUPPORT TRUCK H520 LOADING.
3. MANHOLES SHALL HAVE PAVED INVERTS
4. MANHOLES SHALL CONFORM TO CTDOT STANDARDS.

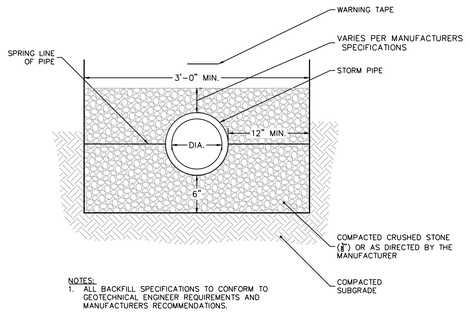
STORM MANHOLE

N.T.S.



TYPE "CL" SINGLE CATCH BASIN

N.T.S.

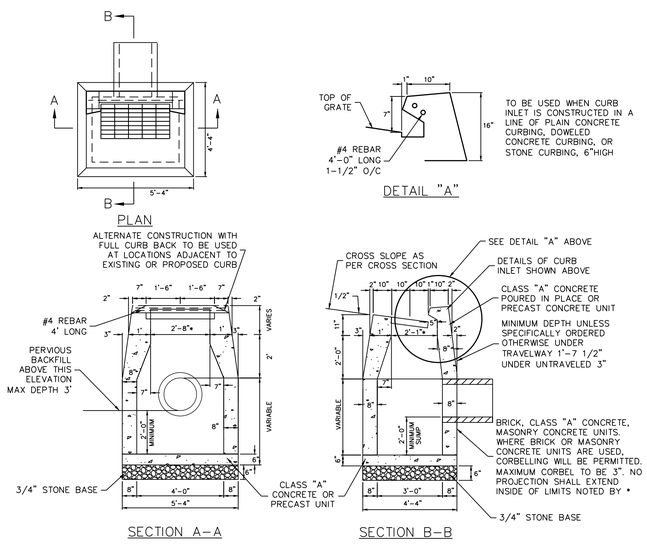


NOTES:

1. ALL BACKFILL SPECIFICATIONS TO CONFORM TO GEOTECHNICAL ENGINEER REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

STORM PIPE BEDDING

N.T.S.

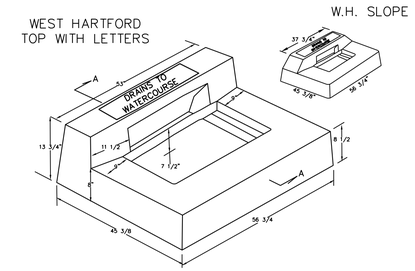


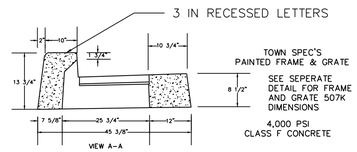
NOTES:

1. WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT THE 1/2" SLOPE ON THE TOP SURFACE SHALL BE CHANGED TO MATCH ADJOINING PAVEMENT.
2. IN SANDY SOILS, APPLY DAMP-PROOFING ON ALL 4 WALLS.
3. STRUCTURE TO CONFORM TO CTDOT STANDARDS.

TYPE "C" SINGLE CATCH BASIN

N.T.S.

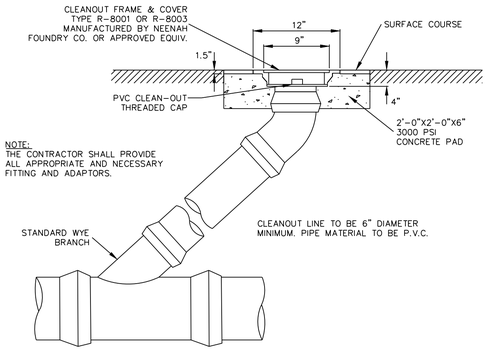




NOTE: TOWN STANDARD OBTAINED FROM CROMWELL CONCRETE PRODUCTS, INC.; (860)635-5146 THIS DEATIL IS FOR REFERENCE ONLY. CONTRACTOR IS RESONSIBLE FOR ENSURING MOST CURRENT DETAIL IS USED.

CATCH BASIN TOP

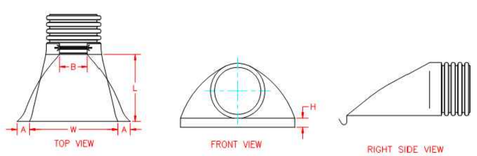
N.T.S.



CLEAN OUT

N.T.S.

PIPE DIAMETER, in (mm)						
Diameter in (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
A in (mm)	6.5 (165)	6.5 (165)	7.5 (191)	7.5 (191)	7.5 (191)	7.5 (191)
B (max) in (mm)	10.0 (254)	10.0 (254)	15.0 (381)	18.0 (475)	22.0 (559)	25.0 (635)
H in (mm)	6.5 (165)	6.5 (165)	6.5 (165)	6.5 (165)	8.6 (218)	8.6 (218)
L in (mm)	25.0 (635)	25.0 (635)	32.0 (813)	36.0 (914)	58.0 (1473)	58.0 (1473)
W in (mm)	29.0 (737)	29.0 (737)	35.0 (889)	45.0 (1143)	63.0 (1600)	63.0 (1600)



Product detail may differ slightly from actual product appearance.

HDPE FES

N.T.S.

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PROJECT DATA

PROJECT NUMBER	18036
CURRENT SUBMISSION DATE	10.26.2018
DRAWN	IV
CHECKED	NLK
SCALE	
FILE REFERENCE	Filename: \\langan.com\data\NH\data2\140184201\Project Data\CADD\1SheetFiles\Civil\140184201-CG501-0101.dwg Date: 12/31/2018 Time: 10:18 User: bphillips Style Table: Langan.stb Layout: CG501

HISTORY OF SUBMISSIONS

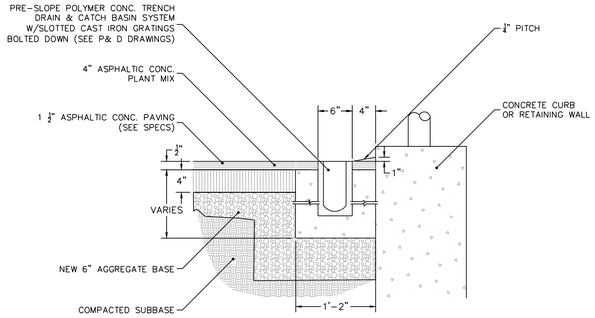
No.	Date	Description
1	10/26/2018	Wetlands Application Submission
2	11/02/2018	Wetlands & SDD Application Submission
3	12/07/2018	Response to Engineering and Staff Comments
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

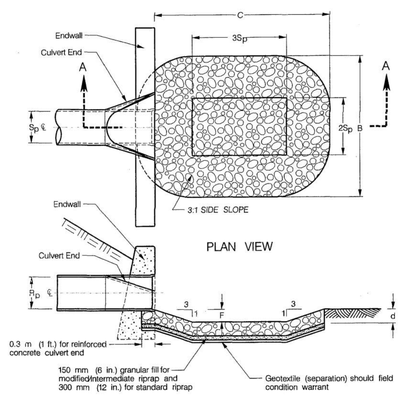
DRAINAGE DETAILS I

CG501



TRENCH DRAIN

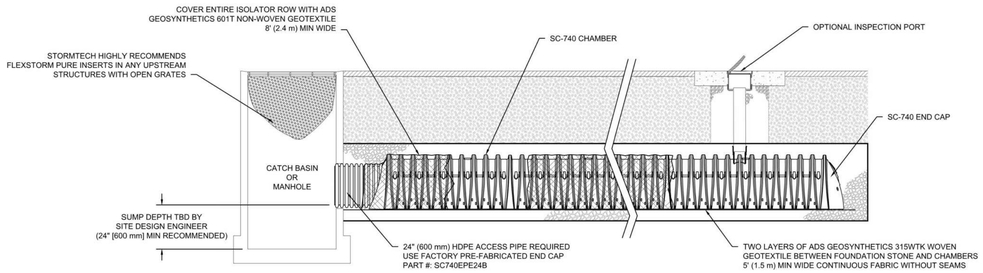
N.T.S.



OUTLET CONTROL STRUCTURE ID	PIPE SPAN (S_P)	PIPE RISE (R_P)	d	F = 0.5 R_P	WIDTH (B)	LENGTH (C)
OCS 101	24"	24"	12"	12"	10 FT	12 FT
OCS 201	30"	30"	12"	15"	12.5 FT	15 FT

PREFORMED SCOUR HOLE

N.T.S.



SC-740 ISOLATOR ROW DETAIL

NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

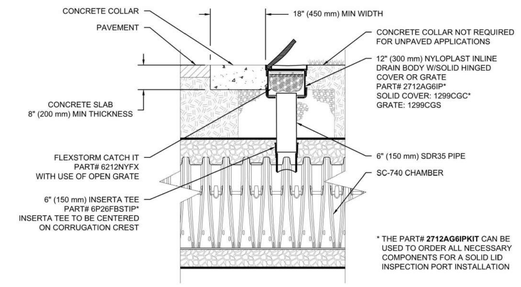
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY. BUT NO LESS THAN ONCE EVERY 2 YEARS



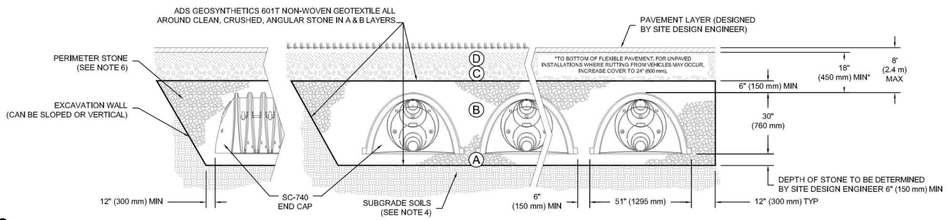
SC-740 6" INSPECTION PORT DETAIL

NTS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

ISOLATOR ROW DETAILS SC-740 — DRAWN: JLM — DATE: 03/08/17 — CHECKED: JLM — PROJECT #:

DESCRIPTION

REV	DRW	CHK
01/18/16	AJM	JLM

StormTech — 70 INWOOD ROAD, SUITE 3 | ROCKY HILL, CT 06067 — PHONE: 860-529-8188 FAX: 860-529-8040

ADS — 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OF OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCTS DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 1 OF 1

SC-740 STANDARD CROSS SECTION — DRAWN: JLM — DATE: 11/18/14 — CHECKED: JLM — PROJECT #:

DESCRIPTION

REV	DRW	CHK
01/18/16	AJM	JLM
		UPDATE

StormTech — 70 INWOOD ROAD, SUITE 3 | ROCKY HILL, CT 06067 — PHONE: 860-529-8188 FAX: 860-529-8040

ADS — 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473

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SHEET 1 OF 1

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PROJECT DATA

PROJECT NUMBER	18036
CURRENT SUBMISSION DATE	10.26.2018
DRAWN	IV
CHECKED	NLK
SCALE	
FILE REFERENCE	Filename: \\langan.com\data\NH\data2\140184201\Project Data\CAD\01\SheetFiles\Civil\140184201-CG501-0101.dwg Date: 12/31/2018 Time: 10:18 User: bphillips Style Table: Langan.stb Layout: CG502

HISTORY OF SUBMISSIONS

No.	Date	Description
1	10/26/2018	Wetlands Application Submission
2	11/02/2018	Wetlands & SDD Application Submission
3	12/07/2018	Response to Engineering and Staff Comments
4	12/31/2018	Revised per Staff Comments

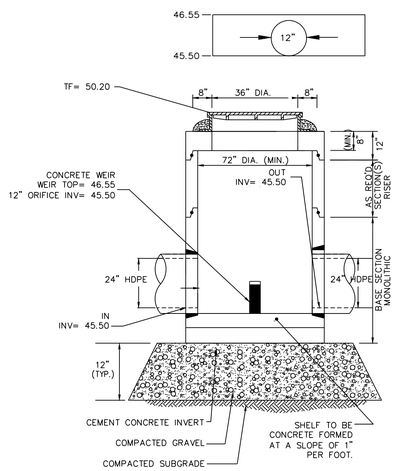
WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

DRAINAGE DETAILS II

CG502

WEIR

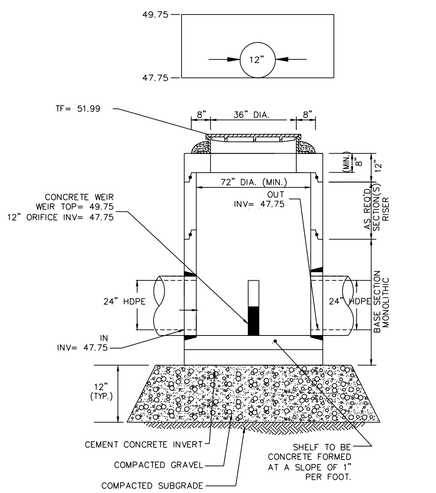


1. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

OUTLET CONTROL STRUCTURE (OCS-101)

N.T.S.

WEIR



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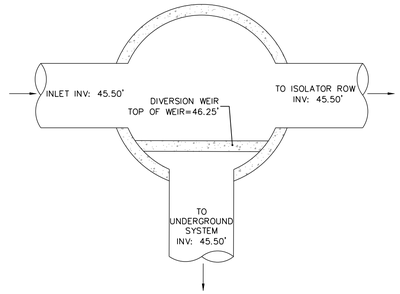
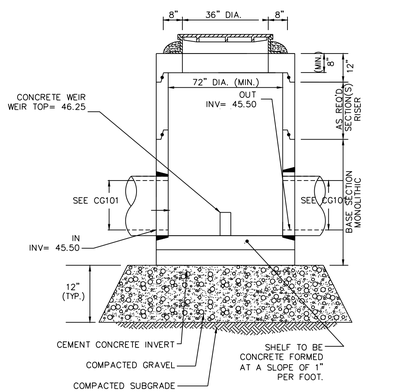
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

OUTLET CONTROL STRUCTURE (OCS-201)

N.T.S.

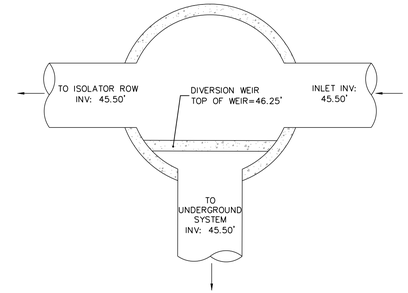


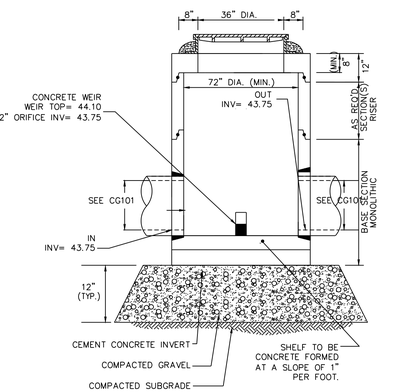


1. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

OUTLET CONTROL STRUCTURE (OCS-102)

N.T.S.

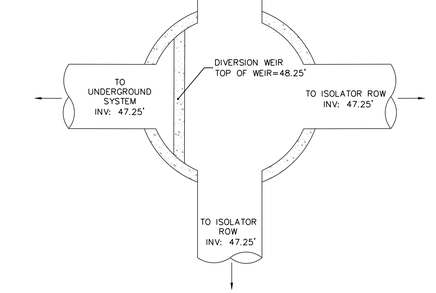


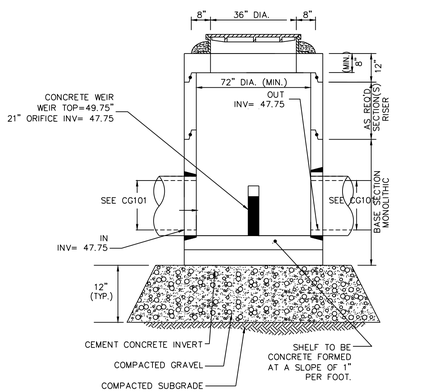


1. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

OUTLET CONTROL STRUCTURE (OCS-106)

N.T.S.





1. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

OUTLET CONTROL STRUCTURE (OCS-202)

N.T.S.

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PROJECT DATA

PROJECT NUMBER	18036
CURRENT SUBMISSION DATE	10.26.2018
DRAWN	IV
CHECKED	NLK
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HISTORY OF SUBMISSIONS

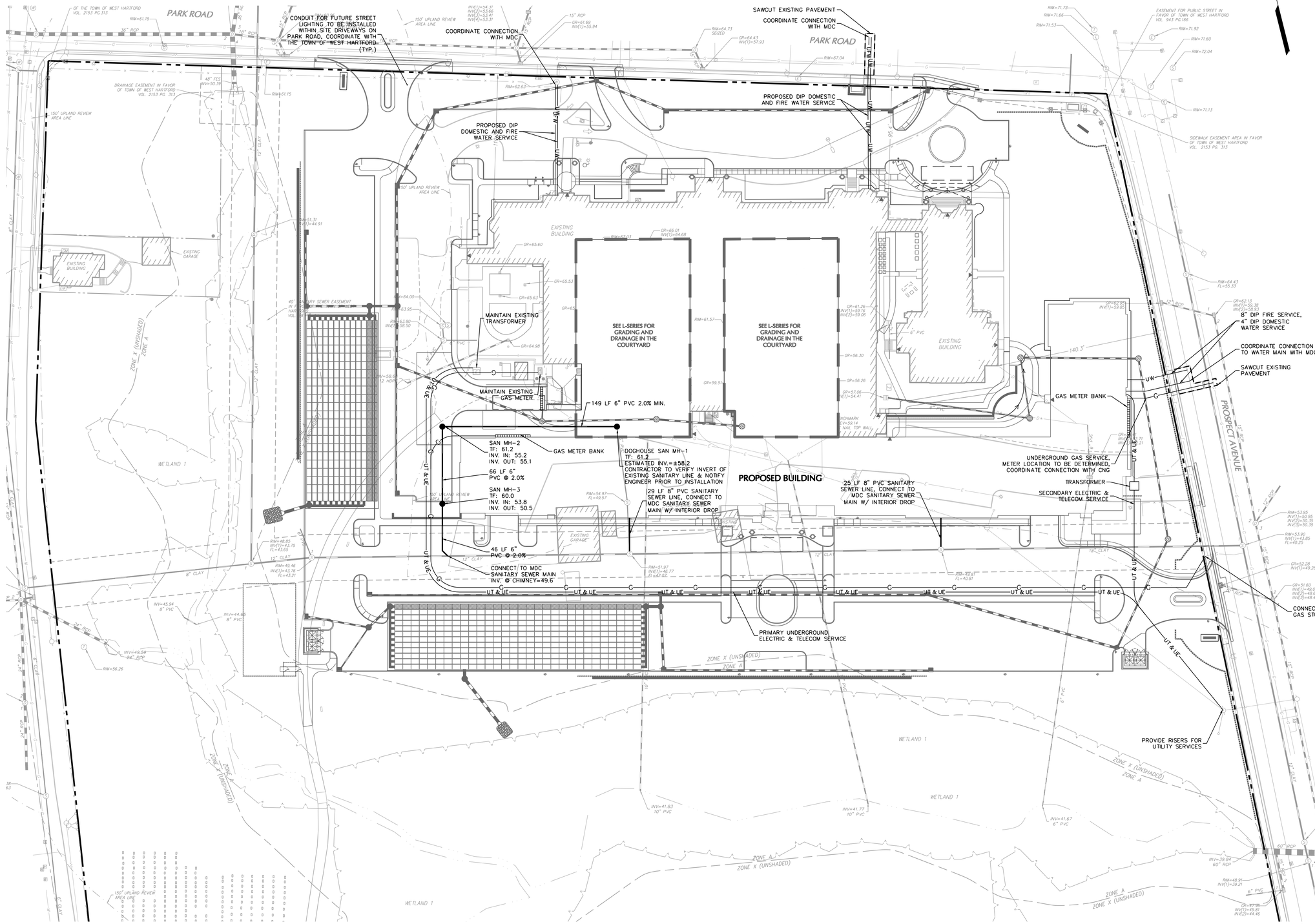
No.	Date	Description
1	10/26/2018	Wetlands Application Submission
2	11/02/2018	Wetlands & SDD Application Submission
3	12/07/2018	Response to Engineering and Staff Comments
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

DRAINAGE
DETAILS III

CG503



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PROJECT DATA

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HISTORY OF SUBMISSIONS

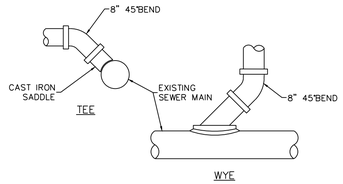
No.	Date	Description
1	10/26/2018	Wetlands Application Submission
2	11/02/2018	Wetlands & SDD Application Submission
3	12/07/2018	Response to Engineering and Staff Comments
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

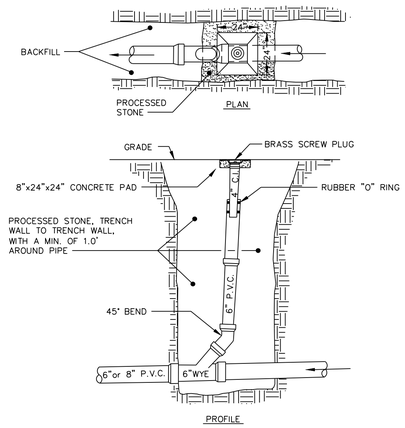
UTILITY PLAN

CU101



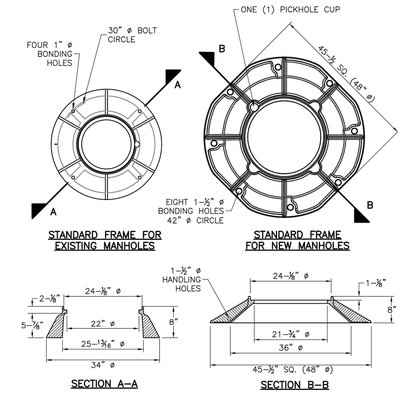
SANITARY SADDLE CONNECTION

N.T.S.



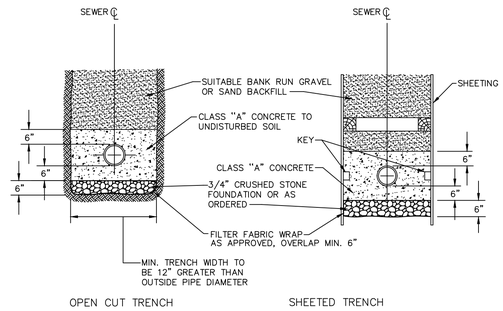
SANITARY CLEAN-OUT

N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 81



STANDARD MANHOLE FRAME

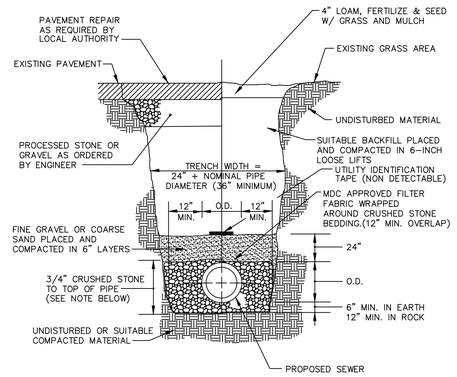
N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 81



NOTE:
ALL SANITARY PIPES SHALL BE ENCASED IN CONCRETE, WHEN THE VERTICAL DISTANCE BETWEEN PIPE CROSSINGS IS 18" OR LESS AND THE HORIZONTAL SEPARATION DISTANCE BETWEEN PIPES IS LESS THEN 10'. ENCASEMENT SHALL BE EXTENDED FOR A DISTANCE OF 10' (20' TOTAL) FROM BOTH SIDES OF THE CENTERLINE OF THE PIPE OR UNTIL THE PIPE SEPARATION IS 10' HORIZONTAL, WHICH EVER IS LONGER.

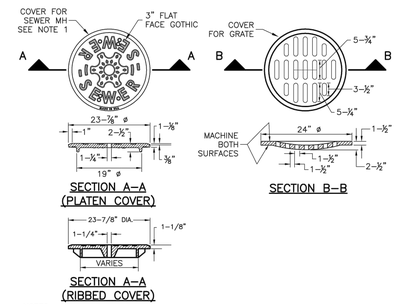
TYPICAL CONCRETE ENCASEMENT

N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 9



SEWER TRENCH DETAIL

N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 6

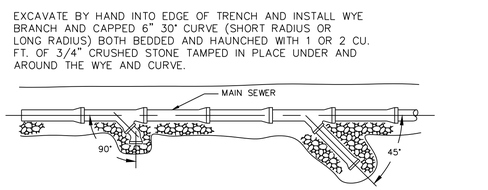


NOTES:

1. MANHOLES COVERS MAY BE DESIGN WITH OR WITHOUT RIBS. THE TOP SURFACE OF THE MANHOLE COVER SHALL BE FLAT. THE BOTTOM SURFACE MAY OR MAY NOT BE FLAT.
2. PROVIDE ALTERNATIVE INSCRIPTION 'STORM DRAIN' WHEN SPECIFIED.
3. THE LOWER SURFACE OF THE COVER AND THE CORRESPONDING UPPER SURFACE OF THE FRAME SHALL BE MACHINE FINISHED TO PROVIDE A SMOOTH FLAT CONTACT OR FIT WITHOUT ANY TENDENCY FOR THE COVER OR GRATE TO ROCK OR RATTLE. THE GAP BETWEEN THE COVER/GRATE AND FRAME SHALL BE NO MORE THAN ⅛" ALL AROUND.

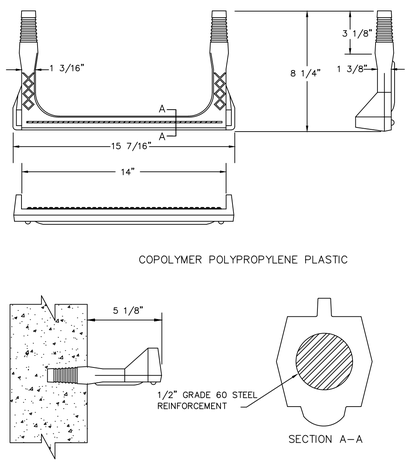
STANDARD MANHOLE COVERS

N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 27



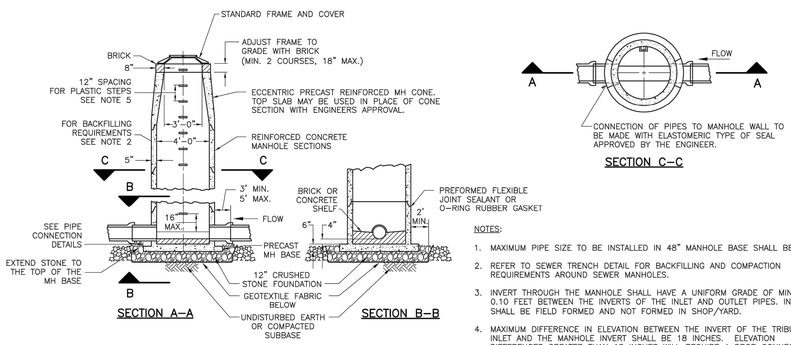
TYPICAL CONNECTION BRANCHES

N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 62



PLASTIC MANHOLE STEP (FOR PRE-CAST CONCRETE)

N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 60



NOTES:

1. MAXIMUM PIPE SIZE TO BE INSTALLED IN 48" MANHOLE BASE SHALL BE 18".
2. REFER TO SEWER TRENCH DETAIL FOR BACKFILLING AND COMPACTION REQUIREMENTS AROUND SEWER MANHOLES.
3. INVERT THROUGH THE MANHOLE SHALL HAVE A UNIFORM GRADE OF MINIMUM 0.10 FEET BETWEEN THE INVERTS OF THE INLET AND OUTLET PIPES. INVERTS SHALL BE FIELD FORMED AND NOT FORMED IN SHOP/YARD.
4. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN THE INVERT OF THE TRIBUTARY INLET AND THE MANHOLE INVERT SHALL BE 18 INCHES. ELEVATION DIFFERENCES GREATER THAN 18 INCHES WILL REQUIRE A DROP CONNECTION.
5. DISTANCE FROM TOP OF MANHOLE COVER TO FIRST PLASTIC STEP SHALL BE BETWEEN 12" AND 16".

TYPE II MANHOLE TYPICAL PRECAST SANITARY MANHOLE

N.T.S. FIGURE FOUND IN MDC SANITARY AND STORM DRAIN CONNECTION MANUAL - FIGURE 18

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PROJECT DATA

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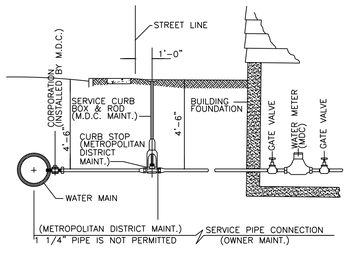
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

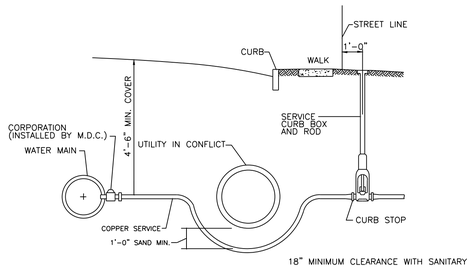
UTILITY DETAILS I

CU501



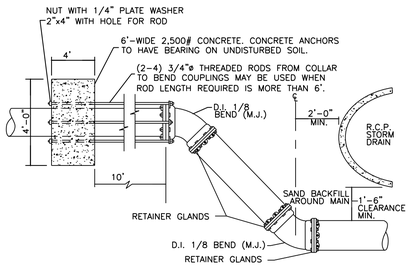
TYPICAL COPPER WATER SERVICE

N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 5



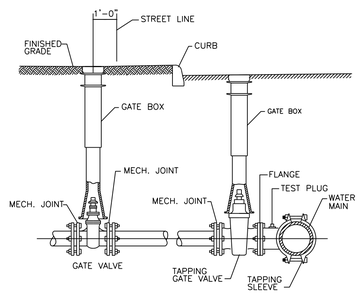
TYPICAL COPPER SERVICE OFFSET

N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 30



TYPICAL OFFSET

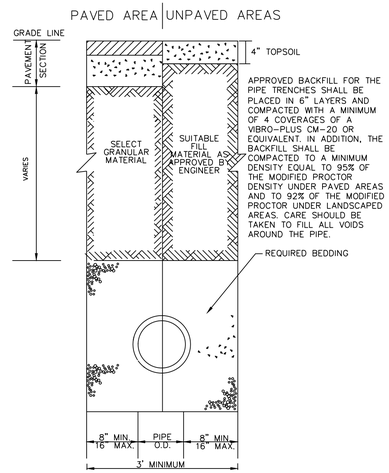
N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 30



PIPING TO BE RESTRAINED WITH RODDING OR RETAINING GLANDS

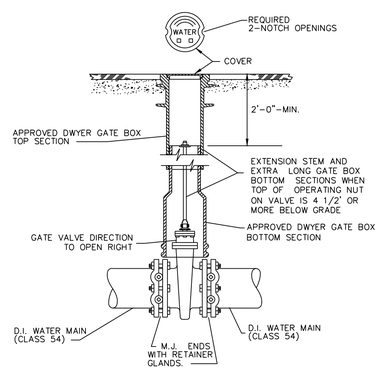
SERVICES 4" THROUGH 8"

N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 11



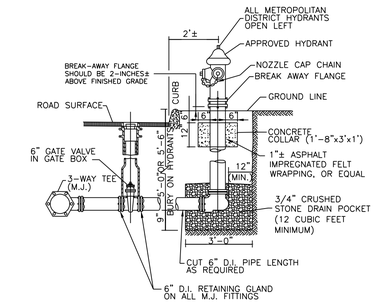
UTILITY PIPE BACKFILL

N.T.S.



TYPICAL GATE VALVE INSTALLATION 12" & SMALLER

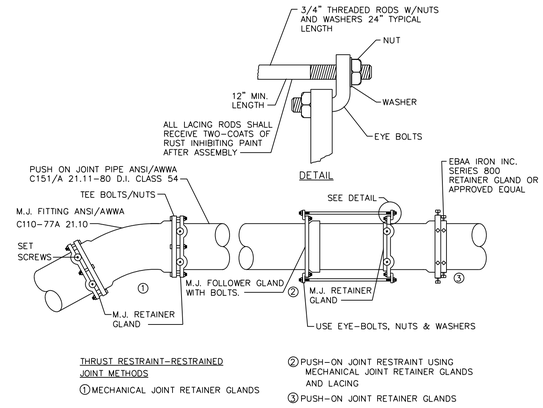
N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 13



TYPICAL RETAINING GLAND INSTALLATION

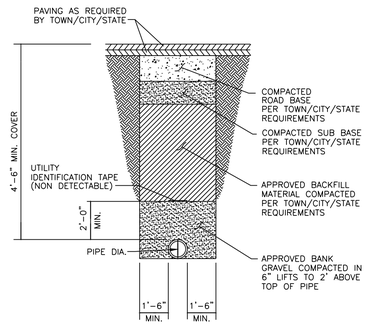
FIRE HYDRANT ASSEMBLY

N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 25



TYPICAL RESTRAINED JOINTS

N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 28



TYPICAL WATER MAIN TRENCH

N.T.S. FIGURE FOUND IN MDC WATER SERVICE STANDARDS AND APPROVED MATERIALS LIST - FIGURE 4

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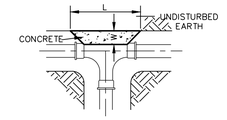
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

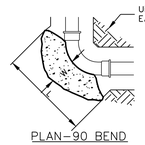
SHEET TITLE

UTILITY DETAILS II

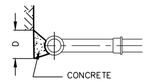
CU502



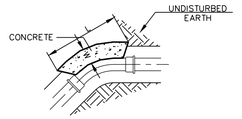
PLAN–TEE



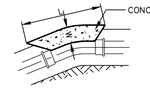
PLAN–90 BEND



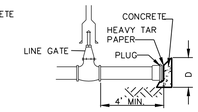
ELEVATION AT FITTINGS



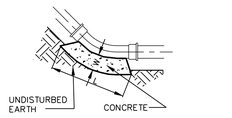
PLAN–45 BEND



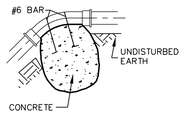
PLAN–22 1/2 BEND



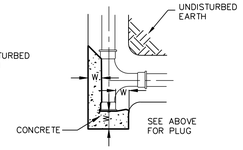
ELEVATION–PLUGGED PIPE



VERTICAL BEND



ELEVATION–VERTICAL BEND



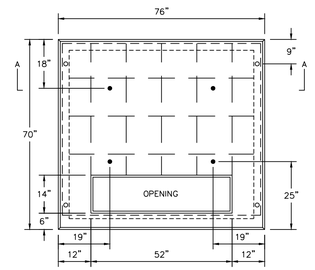
PLAN–PLUGGED TEE

THRUST BLOCK SCHEDULE									
PIPE SIZE	TEE		22 1/2		45		90		W
	L	D	L	D	L	D	L	D	
6"	18"	15"	15"	12"	15"	12"	15"	15"	21"
8"	2'	18"	18"	12"	18"	12"	2'	18"	2'
12"	3'	2'	2'	12"	2'	12"	3'	2'	28"
16"	4'	2.5'	2'	12"	2.33'	15"	4'	2.5'	31"
20"	5.25'	3'	2'	18"	3'	2'	5.25'	3'	33"
24"	7.5'	3'	3'	18"	4'	2.5'	7.5'	3'	3'

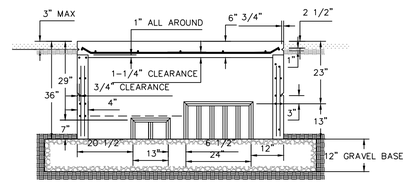
BASIS:
2,000 LB/SQ.FT. SOIL RESISTANCE 250 PSI WATER PRESSURE CORRECTION
FACTORS FOR OTHER SOILS:
- SOFT CLAY 4
- SAND 2
- SAND & GRAVEL 1.33
- SHALE 0.4

NOTE:
1. IF SOFT MATERIALS ARE ENCOUNTERED, THE THRUST BLOCKS SIZES SHALL BE ADJUSTED ACCORDINGLY.
2. CONCRETE TO BE 3000 PSI.

THRUST BLOCKS
N.T.S.



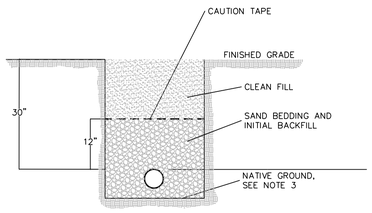
TOP VIEW



SECTION AAA

NOTES:
1. ROOF LOAD DESIGN OF 4000 LBS SPREAD OVER 1–FOOT–SQUARE AREA ANYWHERE ON ROOF
2. WALLS SHALL RESIST A SOIL PRESSURE OF EQUIVALENT FLUID PRESSURE OF 33 PCF. SURCHARGE OF 2.5 FEET OF SOIL WEIGHING 120 PCF.
3. CONCRETE SHALL BE 4000 PSI AT 28 DAYS. ENTRAINED AIR 6–9%.
4. STEEL SHALL BE ASTM A615–1992, GRADE 40.
5. ALL CONCRETE AND REINFORCEMENT IN ACCORDANCE WITH ACI 318–1999.
6. FOR LIFTING TOP OR BOTTOM SECTION, CAST IN FOUR 3/4–INCH–DIAMETER DAYTON SUREGRIP (OR APPROVED EQUAL) COIL LOOP INSERTS, GALVANIZED, WITH T21 PLASTIC SETTING PLUGS. INSERTS ARE TO BE SECURED IN PLACE WITH REBAR.
   TOP: CATALOG TYPE B16, 3/4–INCH–DIAMETER X 4 INCHES LONG.
   BOTTOM: CATALOG TYPE B16, 3/4–INCH–DIAMETER X 4 INCHES LONG.
7. PROVIDE 3–INCH–LONG GROOVE (3/4 INCH X 1 INCH) FOR LIFTING SLING AT EACH CORNER, EACH SIDE.
8. MANUFACTURE'S IDENTIFICATION AND MONTH/YEAR WHEN MANUFACTURED SHALL BE LEGIBLY MARKED IN/ON CONCRETE IN THE SIDE.
9. ZINC ALLOY INSERTS 3/4 INCH – 10 INCHES X 3 INCHES FOR CABLE PULLING. TO BE LOCATED 4 INCHES ABOVE (7 INCH X 13 INCH) KNOCKOUTS FOUR).

PRECAST TRANSFORMER PAD
N.T.S.



NOTES:

1. TRENCHES IN STABLE SOIL OVER 5 FT DEEP SHALL BE REINFORCED
2. BY APPROVED OSHA METHODS.
3. TRENCHES SHALL BE COMPACTED.
4. IF NATIVE GROUND IS NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO AN ACCEPTABLE DEPTH AND INSTALL MATERIALS AS APPROVED BY ENGINEERS AND UTILITY COMPANY. CONTRACTOR TO PROVIDE EXCAVATION, BEDDING, SAND BACKFILL AND FIND BACKFILL. GAS COMPANY TO PROVIDE INSTALLATION OF ALL GAS PIPING AND SERVICES.

TYPICAL GAS TRENCH
N.T.S.

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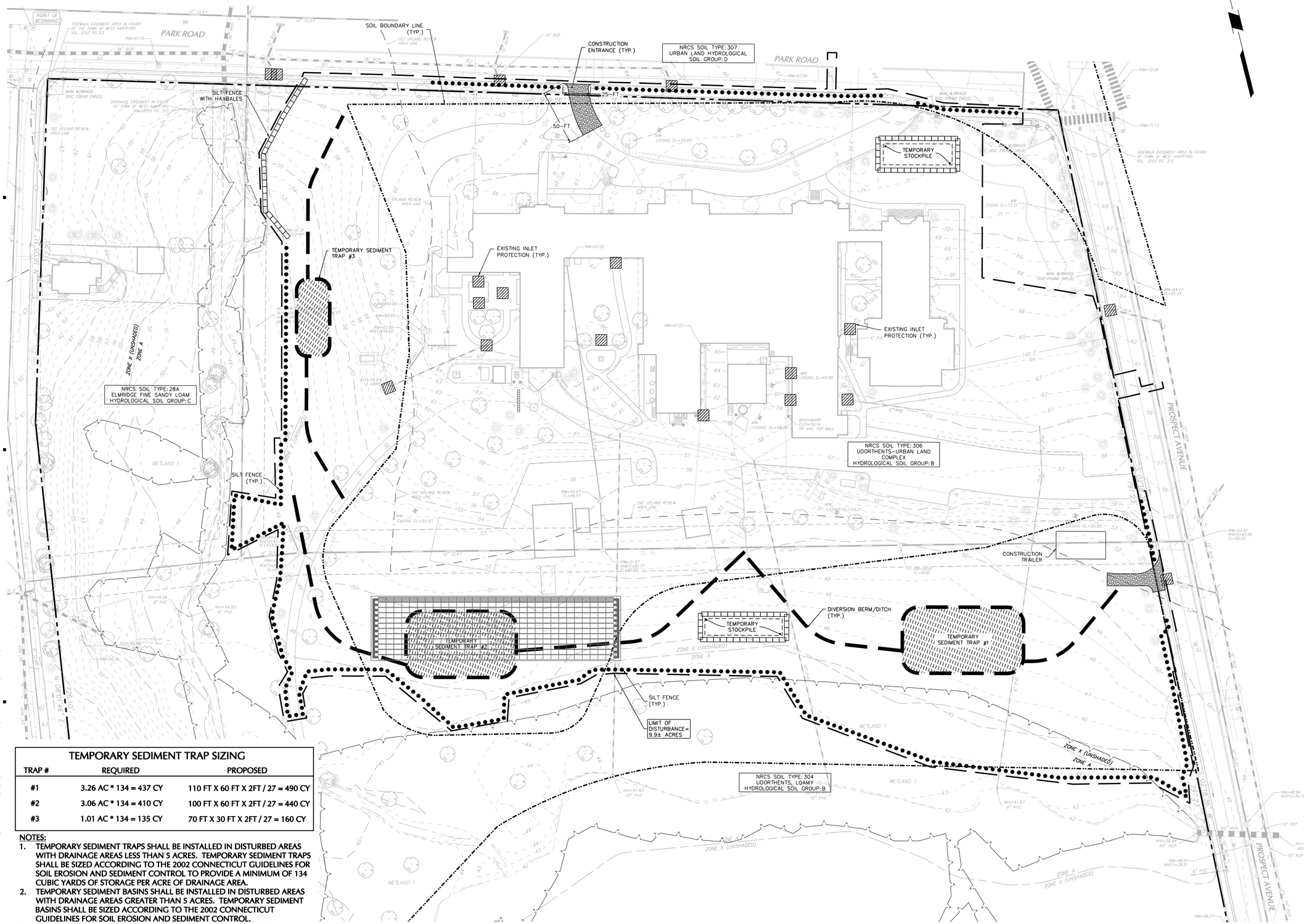
WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

UTILITY DETAILS III

CU503



TEMPORARY SEDIMENT TRAP SIZING

TRAP #	REQUIRED	PROPOSED
#1	3.26 AC * 134 = 437 CY	110 FT X 60 FT X 2FT / 27 = 490 CY
#2	3.06 AC * 134 = 410 CY	100 FT X 60 FT X 2FT / 27 = 440 CY
#3	1.01 AC * 134 = 135 CY	70 FT X 30 FT X 2FT / 27 = 160 CY

NOTES:

1. TEMPORARY SEDIMENT TRAPS SHALL BE INSTALLED IN DISTURBED AREAS WITH DRAINAGE AREAS LESS THAN 5 ACRES. TEMPORARY SEDIMENT TRAPS SHALL BE SIZED ACCORDING TO THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL TO PROVIDE A MINIMUM OF 134 CUBIC YARDS OF STORAGE PER ACRE OF DRAINAGE AREA.
2. TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED IN DISTURBED AREAS WITH DRAINAGE AREAS GREATER THAN 5 ACRES. TEMPORARY SEDIMENT BASINS SHALL BE SIZED ACCORDING TO THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
3. SEDIMENT TRAPS AND BASINS SHALL BE MAINTAINED UNTIL FINAL STABILIZATION OF THE CONTRIBUTING AREA.

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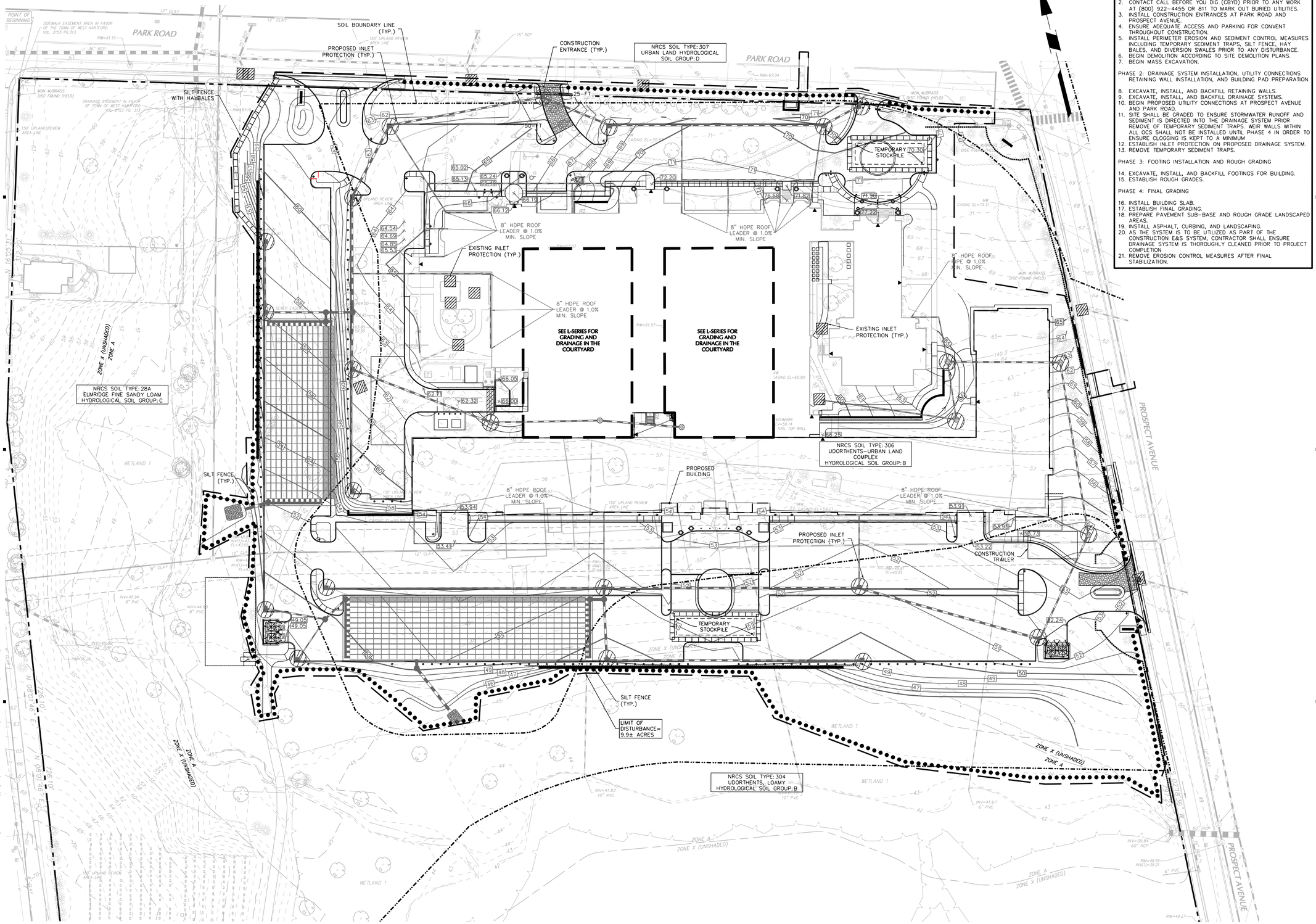
WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I

CE101



PHASING PLAN NOTES

PHASE 1: ESTABLISH SESC MEASURES, MASS EXCAVATION, AND SLOPE CUT.

1. PRIOR TO ANY WORK, OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK.
2. CONTACT CALL BEFORE YOU DIG (CBYD) PRIOR TO ANY WORK AT (800) 922-4455 OR 811 TO MARK OUT BURIED UTILITIES.
3. INSTALL CONSTRUCTION ENTRANCES AT PARK ROAD AND PROSPECT AVENUE.
4. ENSURE ADEQUATE ACCESS AND PARKING FOR CONVENT THROUGHOUT CONSTRUCTION.
5. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES INCLUDING TEMPORARY SEDIMENT TRAPS, SILT FENCE, HAY BALES, AND DIVERSION SWALES PRIOR TO ANY DISTURBANCE.
6. BEGIN DEMOLITION ACCORDING TO SITE DEMOLITION PLANS.
7. BEGIN MASS EXCAVATION.

PHASE 2: DRAINAGE SYSTEM INSTALLATION, UTILITY CONNECTIONS RETAINING WALL INSTALLATION, AND BUILDING PAD PREPARATION.

8. EXCAVATE, INSTALL, AND BACKFILL RETAINING WALLS.
9. EXCAVATE, INSTALL, AND BACKFILL DRAINAGE SYSTEMS.
10. BEGIN PROPOSED UTILITY CONNECTIONS AT PROSPECT AVENUE AND PARK ROAD.
11. SITE SHALL BE GRADED TO ENSURE STORMWATER RUNOFF AND SEDIMENT IS DIRECTED INTO THE DRAINAGE SYSTEM PRIOR REMOVE OF TEMPORARY SEDIMENT TRAPS. WEIR WALLS WITHIN ALL OCS SHALL NOT BE INSTALLED UNTIL PHASE 4 IN ORDER TO ENSURE CLOGGING IS KEPT TO A MINIMUM
12. ESTABLISH INLET PROTECTION ON PROPOSED DRAINAGE SYSTEM.
13. REMOVE TEMPORARY SEDIMENT TRAPS.

PHASE 3: FOOTING INSTALLATION AND ROUGH GRADING

14. EXCAVATE, INSTALL, AND BACKFILL FOOTINGS FOR BUILDING.
15. ESTABLISH ROUGH GRADES.

PHASE 4: FINAL GRADING

16. INSTALL BUILDING SLAB.
17. ESTABLISH FINAL GRADING.
18. PREPARE PAVEMENT SUB-BASE AND ROUGH GRADE LANDSCAPED AREAS.
19. INSTALL ASPHALT, CURBING, AND LANDSCAPING.
20. AS THE SYSTEM IS TO BE UTILIZED AS PART OF THE CONSTRUCTION E&S SYSTEM, CONTRACTOR SHALL ENSURE DRAINAGE SYSTEM IS THOROUGHLY CLEANED PRIOR TO PROJECT COMPLETION
21. REMOVE EROSION CONTROL MEASURES AFTER FINAL STABILIZATION.

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PROJECT DATA

PROJECT NUMBER	18036
CURRENT SUBMISSION DATE	10.26.2018
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HISTORY OF SUBMISSIONS

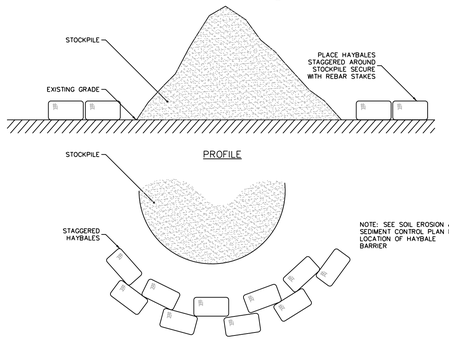
No.	Date	Description
1	10/26/2018	Wetlands Application Submission
2	11/02/2018	Wetlands & SDD Application Submission
3	12/07/2018	Response to Engineering and Staff Comments
4	12/31/2018	Revised per Staff Comments

WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

SOIL EROSION & SEDIMENT CONTROL PLAN PHASE II

CE102



TEMPORARY STOCKPILE

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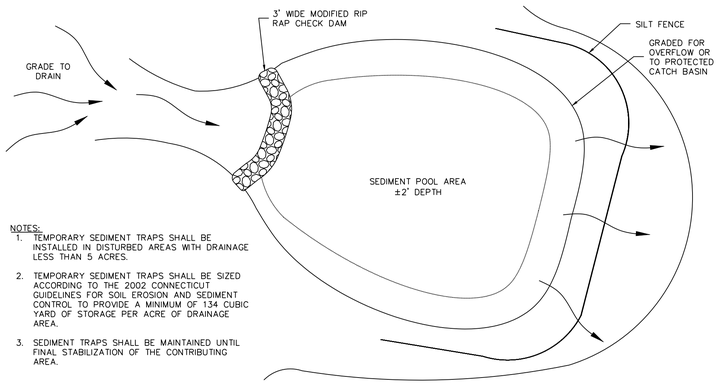
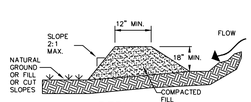


NOTES:

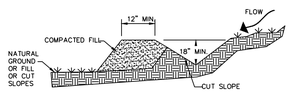
1. TEMPORARY SEDIMENT TRAPS SHALL BE INSTALLED IN DISTURBED AREAS WITH DRAINAGE LESS THAN 5 ACRES.
2. TEMPORARY SEDIMENT TRAPS SHALL BE SIZED ACCORDING TO THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL TO PROVIDE A MINIMUM OF 134 CUBIC YARD OF STORAGE PER ACRE OF DRAINAGE AREA.
3. SEDIMENT TRAPS SHALL BE MAINTAINED UNTIL FINAL STABILIZATION OF THE CONTRIBUTING AREA.

TEMPORARY SEDIMENT TRAP

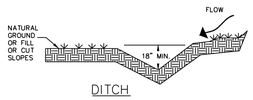
N.T.S.



BERM



BERM/DITCH



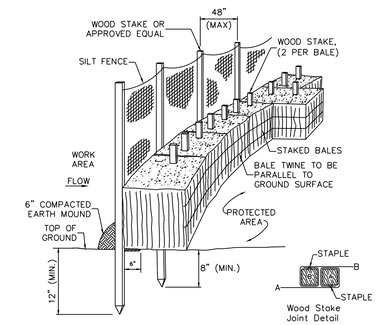
DITCH

NOTES:

1. POSITIVE GRADE MUST BE PROVIDED TO ASSURE DRAINAGE. 2:1 MAX. SIDE SLOPE. IF SLOPE EXCEEDS 2% OR CHANNEL IS CONSTRUCTED IN FILL, PROVIDE CHANNEL LINER PER DETAIL, EC 5, TRY NOT TO EXCEED 5% (HIGH RUNOFF VELOCITIES RESULT). MAXIMUM DRAINAGE AREA IS 5.00 ACRES WITHOUT SUPPORTINGCALCULATIONS FOR PERMANENT CHANNEL. DIVERSIONS AT THE TOPS OF SLOPES MUST EMPTY INTO AN APPROVED SLOPE DRAIN (SEE DETAILS). THE BERM/ DITCH IS THE MOST COMMONLY USED DIVERSION.
2. MACHINE COMPACTING OF ALL FILL IS REQUIRED.
3. DIVERSIONS SUFFICIENT TO DIRECT ALL SEDIMENT-LADEN STORMWATER INTO SEDIMENT CONTROL DEVICE MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING OF AREA (OR IN CONJUNCTION WITH THIS OPERATION IF SEDIMENT CONTROLS AND DIVERSIONS ARE INSTALLED AT EACH CRITICAL POINT AS INDICATED).
4. DIVERSIONS SHOULD BE LOCATED AS SHOWN ON THE PLANS AND TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS.
5. DIVERSIONS SHOULD BE SEEDED AND LINED WITH STRAW MAT IF THEY ARE TO REMAIN IN PLACE OVER 14 DAYS.
6. CHECK DIVERSIONS AFTER EACH RAIN, AND ONCE PER SEVEN CALENDAR DAYS OR MORE FREQUENTLY IF REQUIRED BY REGULATORY AGENCY. REPAIR AS NEEDED TO MAINTAIN FUNCTION.

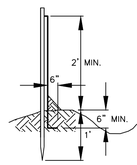
TEMPORARY DIVERSION BERM/DITCH

N.T.S.



STAKED HAY BALES/SILT FENCE

N.T.S.

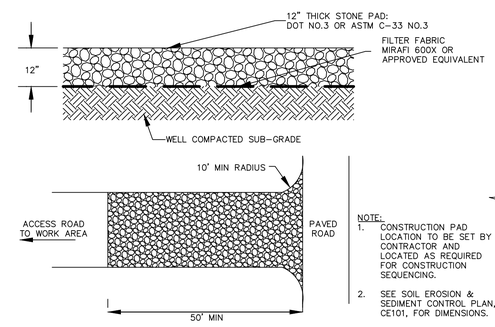


INSTALLATION NOTES:

1. EXCAVATE AND SECURE BOTTOM 8" OF SILT FENCE BELOW GRADE AS SHOWN.
2. EXCEPT FOR THE END POST, DRIVE ALL POSTS INTO THE GROUND AT BACK SIDE OF TRENCH SPACED A MAXIMUM OF 8 FT O. C.
3. SECURE FILTER FABRIC WITH DRAWSTRING TO POST WITH METAL FASTENERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC.

SILT FENCE

N.T.S.

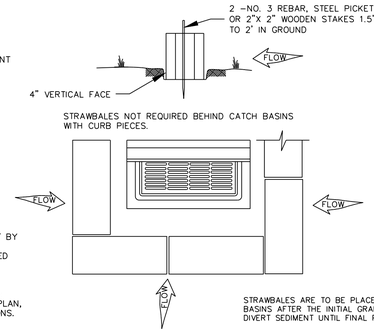


NOTE:

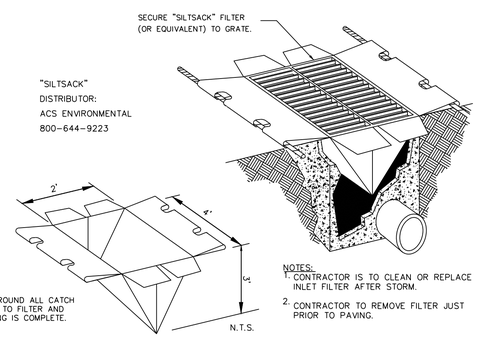
1. CONSTRUCTION PAD LOCATION TO BE SET BY CONTRACTOR AND LOCATED AS REQUIRED FOR CONSTRUCTION SEQUENCING.
2. SEE SOIL EROSION & SEDIMENT CONTROL PLAN, CE101, FOR DIMENSIONS.

STABILIZED CONSTRUCTION PAD

N.T.S.



STRAWBALES ARE TO BE PLACED AROUND ALL CATCH BASINS AFTER THE INITIAL GRADING TO FILTER AND DIVERT SEDIMENT UNTIL FINAL PAVING IS COMPLETE.



NOTES:

1. CONTRACTOR IS TO CLEAN OR REPLACE INLET FILTER AFTER STORM.
2. CONTRACTOR TO REMOVE FILTER JUST PRIOR TO PAVING.

INLET PROTECTION

N.T.S.

SOIL EROSION-SEDIMENT CONTROL PLAN

PROPOSED DEVELOPMENT

1. CONSTRUCTION WILL INCLUDE FILL PLACEMENT, SOIL REMOVAL, CURBING, PAVING, LANDSCAPING, RETAINING WALL, AND BUILDING CONSTRUCTION. THE DEVELOPMENT WILL INCLUDE A PARKING GARAGE, SURFACE PARKING LOTS, AND COURTYARD RENOVATIONS WITHIN EXISTING BUILDING AREA. ALL DEMOLITION DEBRIS AND SOIL REMOVAL RELATED TO CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND LOCALE LAWS GOVERNING SUCH ACTIVITIES
2. THE DETAILED EROSION AND SEDIMENT CONTROL MEASURES ARE SHOWN ON THIS DRAWING AND DRAWING CE-101. THE PROPOSED MEASURES HAVE BEEN DESIGNED TO PREVENT THE MIGRATION OF SOIL SEDIMENT FROM THE SITE.
3. THESE SOIL EROSION & SEDIMENT CONTROL MEASURES ARE SHOWN AS A GUIDE IN ORDER TO EFFECTIVELY PREVENT THE MIGRATION OF SOIL SEDIMENT FROM THE SITE. PORTIONS OF THESE MEASURES MAY REQUIRE TO BE ENACTED AT VARIOUS TIMES THROUGHOUT THE PROJECT DEPENDING ON THE CONSTRUCTION PHASING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE WHAT EXTENTS OF THESE MEASURES SHOULD BE TAKEN AT THE APPROPRIATE TIMES.

PROJECT SCHEDULE

1. START OF CONSTRUCTION SPRING 2019
2. INSTALLATION OF E&S MEASURES IN THE FOLLOWING ORDER:
   - 2.1. INSTALLATION OF SILT FENCE AND STAKED HAYBALES
   - 2.2. INSTALLATION OF INLET PROTECTION
   - 2.3. INSTALLATION OF TREE PROTECTION
   - 2.4. INSTALLATION OF CONSTRUCTION FENCE AND GATES
   - 2.5. INSTALLATION OF STABILIZED CONSTRUCTION PAD
3. COMPLETION OF SITE CLEARING
4. COMPLETION OF DEMOLITION
5. COMPLETION OF ROUGH GRADING
6. INSTALLATION OF RETAINING WALL
7. INSTALLATION OF SITE UTILITIES
8. PREPARATION OF FOUNDATION AND BUILDING PAD
9. COMPLETION OF FINAL GRADING
10. COMPLETION OF FINAL LANDSCAPING & SITE STABILIZATION IN THE FOLLOWING ORDER:
    - 10.1. INSTALLATION OF PLANTING SOIL
    - 10.2. INSTALLATION OF PLANTINGS AND TREES
    - 10.3. INSTALLATION OF STABILIZED SEED MIX
    - 10.4. CONTRACTOR TO CONFIRM ESTABLISHMENT OF SEED MIX AND PLANTINGS
11. THE REMOVAL OF CONSTRUCTION E&S CONTROL SYSTEMS
12. COMPLETION OF CONSTRUCTION SPRING 2021

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE SOIL AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY, THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, AND THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, 2002.
2. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO START OF CONSTRUCTION AND DISTURBANCE OF SITE CONTRIBUTORY DRAINAGE AREAS. THE OWNER OR ITS CONTRACTOR SHALL INSPECT, REPAIR AND REMOVE ALL SEDIMENT AND EROSION CONTROL DEVICES, AS INDICATED HEREIN.
3. DISPOSAL OF COLLECTED SEDIMENT SHALL BE MADE TO AREAS DESIGNATED BY THE OWNER'S SOIL ENGINEER.
4. FILTER FABRIC/SILT FENCE WILL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
5. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING/LANDSCAPED AREAS SHALL BE REMOVED FROM THE SITE IMMEDIATELY, IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL LAW. ALL TOPSOIL TO BE USED IN LANDSCAPED AREAS SHALL BE STORED/STOCKPILED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL LAW STANDARDS.
6. ALL AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
7. SEDIMENT DISPOSAL AREAS AND TOPSOIL STOCKPILES NOT SCHEDULED FOR CONSTRUCTION ACTIVITIES WITHIN THIRTY (30) DAYS OF DISTURBANCE SHALL BE STABILIZED AS FOLLOWS:
   - A. GROUND LIMESTONE AT A RATE OF 135 LBS. PER 1,000 SF.
   - B. FERTILIZER AT A RATE OF 14 LBS. PER 1,000 SF USING A 10-20-10 ANALYSIS OR AN EQUIVALENT.
   - C. ANNUAL RYE GRASS SEEDING APPLIED AT A RATE OF NOT LESS THAN 1 LB. PER 1,000 SF.
   - D. MULCH ALL NEWLY SEEDED AREAS WITHIN 80 LBS. OF SALT HAY OR SMALL GRAIN STRAW PER 1,000 SF.
8. BETWEEN OCTOBER 15 AND MARCH 15, WHEN DISTURBED AREAS ARE SCHEDULED FOR IMMEDIATE LANDSCAPING, THEY MAY BE MULCHED AND SEEDED PER ITEM D ABOVE.
9. PAVEMENT BASE COURSE MUST BE PLACED IN ALL NEW ROADWAY AREAS UPON COMPLETION OF FINE GRADING.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL PAVED ROADWAYS ON AND OFF-SITE AND MUST BE KEPT FREE OF SITE GENERATED SEDIMENT AT ALL TIMES. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER STANDARD METHOD.
11. ALL STORM DRAINAGE OUTLETS MUST BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
12. SILT FENCES AND BARRIERS MUST BE CLEANED OR REPLACED PERIODICALLY TO REMOVE BUILT-UP SILT.
13. ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSPECTED ON A DAILY BASIS AND CLEANED IMMEDIATELY AFTER EACH STORM.
14. ALL EXPOSED SUBSURFACES WILL BE TREATED WITH 6" OF TOPSOIL PRIOR TO FINAL STABILIZATION.
15. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT. LIME AND FERTILIZE PRIOR TO PERMANENT SEEDING.
16. SOIL EROSION AND SEDIMENT CONTROL SHALL INCLUDE, BUT NOT BE LIMITED TO, OMISSIONS, ERRORS, OR FIELD OPERATIONS IMMEDIATELY AND IN ACCORDANCE THE ABOVE MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ANY OMISSIONS, ERRORS, OR FIELD OPERATIONS IMMEDIATELY AND IN ACCORDANCE WITH THE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
17. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION, WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
18. THE CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN SET FORTH HEREIN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN AND FOR CONVEYING A COPY OF THIS PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
19. PERMANENT
    - A. MATERIALS SPECIFICATION: LAWN AREAS.
      - (i) SOIL: ANY SOIL HAVING A pH OF 4 OR LESS CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE INCHES OF SOIL HAVING A pH OF FIVE OR MORE PRIOR TO SEED BED PREPARATION.
      - (ii) LIME: THREE TONS PER ACRES GROUND LIMESTONE INCORPORATED FOUR INCHES INTO SOIL.
      - (iii) FERTILIZER: 500 L.S. PER ACRES 10-20-10 INCORPORATED FOUR INCHES INTO SOIL.
      - (iv) SEED: THIRTY LBS OF KENTUCKY 31 TALL FESCUE, THIRTY POUNDS OF SPREADING FESCUE, AND THIRTY POUNDS OF KENTUCKY BLUEGRASS PER ACRE.
      - (v) SHADE AREAS: FIFTEEN LBS. OF SPREADING FESCUE, 15 LBS. OF CHEWINGS RED FESCUE, THIRTY LBS. OF KENTUCKY BLUEGRASS AND TEN POUNDS OF PERENNIAL RYE GRASS PER ACRE. MULCH SHOULD BE APPLIED AFTER SEEDING FOR ADDED PROTECTION.
    - B. MULCHING SHALL BE DONE AT THE RATE OF SEVENTY TO NINETY POUNDS PER 1,000 SQUARE FEET WITH UNROTTED SALT HAY.
    - C. LIQUID MULCH BINDERS MUST BE USED TO ANCHOR SALT HAY, HAY OR STRAY MULCHES.
      - (i) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND IT CREATES BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.
      - (ii) USE ONE OF THE FOLLOWING: SYNTHETIC OR ORGANIC BINDERS, BINDERS SUCH AS CURASOL DCA-70, PETRO SET, TERRA TACH, HYDRO MULCH AND AEROSPRAY MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER OF ANCHOR MULCH MATERIALS. BINDERS CONTAINING PETROLEUM PRODUCTS SHALL NOT BE USED.

    NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE TO THE EXCLUSION OF OTHER PRODUCTS.

   - D. FILL MATERIAL SHALL BE FREE FROM DEBRIS PERISHABLE OR COMBUSTIBLE MATERIAL AND FROZEN OR WET EARTH OR STONES LARGER THAN THREE INCHES IN MAXIMUM DIMENSION.
   - E. CONSTRUCTION AREAS SHALL BE PERIODICALLY SPRAYED WITH WATER UNTIL THE SURFACE IS WET TO CONTROL THE GENERATION OF DUST.
   - F. ALL REVISIONS AFTER APPROVAL HAS BEEN GRANTED SHALL BE FORWARDED TO THE APPROPRIATE DISTRICT FOR REVIEW.
   - G. THE LOCAL GOVERNING AUTHORITY SHALL RECEIVE WRITTEN NOTIFICATION SEVENTY TWO HOURS BEFORE THE START OF ANY CONSTRUCTION.
   - H. SEEDED PREPARATION:
     - (i) TOPSOIL SHOULD BE A MINIMUM OF SIX INCHES DEEP (COMPACTED) BEFORE SEEDING.
     - (ii) HAVE TOPSOIL TESTED FOR pH, ADD LIME AS NECESSARY TO ACHIEVE pH OF 6.5. APPLY FERTILIZER AT A RATE OF 300 POUNDS PER ACRE OR SEVEN POUNDS PER 4,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOP DRESSING.
     - (iii) WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. ALL CLAY OR SILTY SOIL AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEED BED WHEREVER FEASIBLE.
     - (iv) REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS PLACES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
     - (v) INSPECT SEED BED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT SOIL COMPACT, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
   - I. CONTRACTOR SHALL INSTALL A FENCED AND GATED LOCATION WITH AN IMPERVIOUS FLOOR FOR STORAGE OF HAZARDOUS MATERIALS WITH A SUPPLY OF ABSORBANT SPILL RESPONSE MATERIAL AVAILABLE.

SOIL EROSION AND SEDIMENT CONTROL OPERATIONS AND MAINTENANCE PROGRAM

1. THE GENERAL CONTRACTOR WILL DESIGNATE PERSONNEL FOR 24 HOUR EMERGENCY RESPONSE IN THE EVENT OF SEVERE WEATHER AND INCREASED POTENTIAL FOR SEVERE EROSION.
2. THE GENERAL CONTRACTOR IS REQUIRED TO MAINTAIN ON SITE OR HAVE THE ABILITY TO RETRIEVE WITHIN 12 HOURS THE FOLLOWING MATERIALS IN THE EVENT THAT THERE ARE DEFICIENCIES IN THE SESC MEASURES:
   - A. 25% OF THE INSTALLED LENGTH OF SILT FENCE
   - B. EQUIVALENT TONNAGE OF STONE FOR STABILIZATION OF 2 STABILIZATION ENTRANCES. STONE COULD BE USED FOR SLOPE REPAIRS, ENERGY DISSIPATER ENHANCEMENTS, ETC.
   - C. HEAVY EQUIPMENT CAPABLE OF TRENCHING/EXCAVATING LARGE AREAS TO DIVERT AND CONTROL RUNOFF IN A CONTROLLED MANNER.
   - D. HAVE DESIGNATED A HYDRO-SEED CONTRACTOR CAPABLE OF RESPONDING TO THE SITE WITHIN 12 HOURS
3. ANY STUMP GRINDINGS OR WOOD CHIPS GENERATED ON-SITE SHOULD BE RETAINED FOR USE TO BACK UP SILT FENCES.
4. INSPECTION BY QUALIFIED PERSONNEL: THE CONSTRUCTION SITE PROJECT MANAGER SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION ACTIVITY THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. WHERE SITES HAVE BEEN TEMPORARILY OR FINALLY STABILIZED.
5. INSPECTION OF DISTURBED AREAS: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
6. RESULTS OF INSPECTION: BASED ON THE RESULTS OF ANY WEEKLY OR MONTHLY INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTION SOURCES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THIS PLAN SHALL BE REVISED AS NEEDED AS SOON AS PRACTICABLE AFTER THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTIONS.
7. INSPECTION REPORT: A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, THE NAMES AND QUALIFICATIONS OF THE PERSONNEL MAKING INSPECTION, THE DATE OF THE INSPECTION, MAJOR OBSERVATIONS RELATED TO SOIL EROSION AND SEDIMENT CONTROL, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS PART OF THIS PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF THE INSPECTION. INSPECTION REPORTS SHALL BE SUBMITTED TO THE TOWN ONCE PER WEEK OR WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER. ONCE A CONTRACTOR IS HIRED, A CONTACT NAME AND NUMBER WILL BE PROVIDED FOR 24/7 EMERGENCY RESPONSE.

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ARCHITECTS

LEXINGTON PARTNERS, LLC.

ONE PARK ROAD

27 PARK ROAD
WEST HARTFORD, CT

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WETLANDS & SDD APPLICATION SUBMISSION

SHEET TITLE

SOIL EROSION & SEDIMENT CONTROL DETAILS I

CE501